VOLUME XIX

QUEENSLAND AGRICULTURAL JOURNAL

Issued by direction of

The Hon. the Secretary for Agriculture

Edited by J. F. F. REID

JANUARY to JUNE, 1923

IMP. BUR.
4 DEC 1923
ENTOM.
Digitized by the Internet Archive
in 2025
https://archive.org/details/queensland-agricultural-journal_january-june-1923_19_index

QUEENSLAND AGRICULTURAL JOURNAL.

VOL. XIX. PARTS 1 TO 6.

GENERAL INDEX.

Page.

A.

Abortion, Contagious 191
Acid Syphoning 448
Agricultural Chemistry 60
Agricultural Clubs for Juniors ... 462
Agricultural Colleges 459
Agricultural Correspondence Course ... 462
Agricultural Council Standing Committee 342
Agricultural Education 458
Agricultural Education and the Cinema 457
Agricultural Education in Queensland and California 144
Agricultural Education in Queensland and University Activities 445
Agricultural Industry Organisation in Queensland 166, 258, 358, 458
Agriculture in Queensland in 1922 ... 54
Agricultural Seeds, Germinating Capacity and Purity Analysis 180, 181
American Cotton Conditions 344
Animals and Birds Acts of 1921 ... 433
Analysis of Agricultural Seeds, Purity 181
Ankylostoma Duodenale in Pigs ... 176
Answers to Correspondents 46, 158, 347, 447, 540
Ants and Sugar-cane (White) 372
Ants (White) 158
Aphis, Woolly 498
Apple Beetle 3
Apple Bitter Rot 196
Apple Board (Pine) 45
Apple, Commercial Packing, Grading, and Picking of 387
Apple, Export Experiments of ... 155
Apple-tree, Black 78
Apples without Core 435
Aromas, Experiments with, for Attracting Cane Beetles 207
Arrowroot 331
Arsenic as Grass Killer 447
Arsenic Preventive for Boll Weevil ... 342
Arsenic Supplies for Pear Poison (State) 248
Asters, Beetles 158
Astronomical Data 50, 162, 254, 354, 454, 544

B.

Bacon Industry on Downs 446
Baits, Fly Poison 194
Banana Beetle Borer 15, 68, 523
Banana, Bunchy Top 32
Banana, Historic 531
Banana Plants, Removal Prohibition 535
Barley 57
Bean, Mauritius 540
Bears and Opossums Protection 342, 443

Page.

Beef Nodules Experiments 247
Beefwood, Scrub 304
Beerburrum Pineapple Subsidy ... 154
Beetle Attacking Asters 158
Beetle Borer, Banana 68, 523
Beetle, Destructive 155
Beetle of Apples 3
Beetle of Cane Collection 374
Beetle of Cane Enemies 157
Beetle of Cane, Experiments with Aromas 207
Beetle of Cane Mortality 206
Beetle of Cane Tachinid Parasites ... 207
Beetle of Cotton 337
Beetles of Cane 87
Beetles on Feeding Trees 207
Beetles, Rutellidoe 333
Benson's Improving the Quality and Productiveness of Fruit and Fruit Trees 416
Benson's Orange Sucking Bugs ... 33
Berkshire Pigs 308
Birds and Animals Act, 1921 433
Bitter Rot of Apple 196
Black Apple-tree or Black Plum ... 78
Black Leg 176
Black Mauritius Bean 540
Black Pig (British) 518
Black Spot in Tomatoes 349
Board for Fodder Conservation ... 165
Board, Egg 385
Board, Pineapple Referendum ... 45
Board, Tomato Pool 45
Boll Weevil, Arsenic Preventive ... 342
Boll Weevil, California Free from ... 444
Boll Weevil Menace and Calcium Arsenate Method of Destruction ... 493
Boll Worm 444
Bond's Rainfall Table 35, 100, 250, 285, 386, 536
Borer Beetle of Banana ... 15, 68, 523
Borer Moth 373
Borer Moth of Sugar-cane 18
Borer, Timber 371
Borer, Wood Weevil 195
Bot Fly 285
Boyd and Martin's Tobacco Culture ... 4
Bread Ropiness 348
Breeding Hens, Picking 444
Breeding Pigs Selection 519
Breeds of Pigs for Queensland 308, 412, 518
British Black Pig 518
British Empire Exhibition 379
Brown Phyparida Beetle 3
Brown Rot 197
Brown's Sheep Stomach Worms ... 83
Brünnich and Coleman's Fertilisers, Manures, and Fertilisers Acts ... 214
Bug, Orange Citrus 103
Bug, Orange Sucking 33

Page.

Bull, Dairy 357
Bunchy Top Banana Disease 32
Butter Cow, Australia's World Champion 246
Butter Grading 511
Butter Storage 509
Butter Tests, Illawarra 538

C.

Cabbage Moth 371
Calcium Arsenate Destruction of Boll Weevil 493
California Freed from Cotton Boll Weevil 444
Californian Methods of Poultry Raising and Marketing 10, 112
Canary Seed 57
Cane and White Ants 372
Cane Beetles 87
Cane Beetles Enemies 157
Cane Beetles, Experiments with Aromas 207
Cane Beetles Mortality 206
Cane Beetles Tachinid Parasite ... 207
Cane Culture and Fertilisers 121
Cane Grubs 373
Cane Grubs Parasites 473
Cane Moth Borer 18, 373
Cane Pest Combat and Control 16, 86, 206, 282, 472
Caterpillars 3
Caterpillars of Tomatoes 498
Caterpillar Plague and Cattle ... 190
Cattle Immunity *re* Tick Fever ... 172
Cattle, Impaction Paralysis of ... 366
Cattle, Lantana Poisoning in 176
Cattle Mastitis 175
Cattle Tetanus 175
Cattle, Treatment for Eating Wild Passion Vine 326
Cheese and Cheese Tests ... 63, 507, 509
Chemistry, Agricultural 60
Chicken Worms 46
Cinema and Agricultural Education ... 457
Citriculturist's Appointment 522
Citrus Orange Bug 103
Cleome Aculeata Weed 516
Climate and Sunspots Relation ... 377
Codling Moth 497
Cold Storage Checks Fruit Fly ... 435
Coleman and Brünnich's Fertilisers, Manures and Fertilisers Acts ... 214
Coleman's Review of Pure Seeds and Stock Foods Acts 178
Colleges, Agricultural 459
Commercial Picking, Grading, and Packing of Apples, Pears, Peaches, Tomatoes, and Plums 387
Conference, Sugar 124
Conservation of Fodder, Board ... 165
Contagious Abortion 191
Contagious Pleuro-pneumonia 190
Co-operation 52, 358, 497
Co-operation and Economic Education 163
Co-operative Marketing 355
Coreless Apple Discovery 435
Correspondence Course in Agriculture 462
Cotton 54, 331
Cotton Acreage Map, 1922-23, January No.
Cotton, American Conditions 344
Cotton Beetles 337
Cotton Boll Weevil Destruction by Calcium Arsenate 493
Cotton Boll Weevil: How California Keeps Free 444

Page.

Cotton Culture 146, 360, 366
Cotton, Empire Growing 101
Cotton Goods, Australian Market ... 342
Cotton Grading 257
Cotton-growers of Queensland ... 344
Cotton Guarantee 256, 365
Cotton Industry Control 457
Cotton Industry in Queensland ... 18, 233
Cotton Industry, Special Legislation 153
Cotton Pests ... 156, 250, 257, 409, 493
Cotton Pests and Diseases Regulation in British Colonies and India ... 335
Cotton Pests, Smoking Out 312
Cotton Picking 315
Cotton Ratoons 153, 356
Cotton Seed 446
Cotton, World Production and Consumption 494-495
Cotton Worm 220
Council of Agriculture 347
Cow, Australian Champion Butter ... 246
Cream Wagons Refrigeration 504
Credit in South Africa, Rural ... 43
Cutworms 3

D.

Dairy and Pig Fodder Plots 58
Dairy Bull 357
Dairy Herd, Q.A.C. 81, 211, 326, 385, 501
Dairy Industry and Conference 61, 502
Dairy, Neutralisation and Pasteurisation 61
Darling Downs Egg-laying Competition 421
Delegation *re* Sugar Industry 268
Dentition of Sheep 320
Departmental Appointments 245, 344, 386, 443, 537
Diseases and Pests of Cotton Regulations in British Colonies and India 235
Diseases in Plants Acts and Regulations 246, 516
Diseases of Bananas 32
Diseases of Tomatoes 498
Dipping Fluids 178, 190
Dips and Dips Mixture 189, 349
Dogs Paralysed by Scrub-tick Bite ... 177
Drought Fighting and Problem ... 164, 538
Dumps Favoured, Central 164

E.

Easterby's Queensland Sugar Industry 200
Easterby's Use of Fertilisers in Sugar-cane Culture 121
Economic Education and Common-sense Co-operation 163
Education, Agricultural 458
Education and the Cinema, Agricultural 457
Education in Agriculture—Queensland University Activities 445
Education in Queensland and California, Agricultural 144
Education, Technical 456
Education Work and Fruit Industry 530
Egg Board 385
Egg-laying Competitions 36, 149, 240, 321, 419, 421, 532
Egg, Outsize 311
Egg Packing 348
Egg Pool Ballot 456, 539
Eglinton's Astronomical Data 50, 162, 254, 354, 454, 544

Page.

Electric Light Harvesting 43
Empire Cotton Growing 101
Empire Exhibition, British 379
English Potatoes 57
Event and Comment 42, 163, 255, 355, 455
Exhibition, British Empire 379
Experiment Station, Townsville ... 173

F.

Farm Advisers 462
Farm and Garden Notes 253, 351, 451, 543
Farm Bureaux 255
Farm Notes 48, 159
Farm Schools 459
Farmers' Furred and Feathered Friends 433
Fattening Pigs 448
Feathered Friends of Farmer 349, 433
Fence for Pigs, Effective 148
Fertilisers Acts and Amendments ... 38
Fertilisers Acts, Manures, and Fertilisers 214
Fertilisers, Nitrogenous 538
Fertilisers, Testing 153
Fertilisers, Use in Sugar-cane Culture 121
Fever and Cattle Immunity, Tick ... 172
Fever, Swine 192
Field Reports, Sugar 7, 118, 208, 279, 371, 469
Finance Question 164
Financing Farmers in New Zealand ... 44
Fistula Treatment 278
Flashlights, Prohibition in Opossum Trapping 456
Fluids for Dipping 178, 190
Fly, Bot 285
Fly Checked by Cold Storage, Fruit ... 435
Fly, Eggs, Fruit 370
Fly, Fruit 1, 194, 284, 369, 496
Fly, Grape 195
Fly Parasites 195
Fly Parasites, Tachinid 207
Fly Poison Baits 194
Fly, Tomato 196
Fodder Conservation 67
Fodder Conservation Board 165
Fodder for Pig and Dairy 58
Food for Stock and Poultry, Pumpkin and Melon Seeds 449
Food Silage 304
Fowl Killing 130
Francis and White's Queensland Trees and Weeds 78, 81, 197, 238, 286, 409, 513, 516
Friesian Record 538
Froggatt's Banana Beetle Borer 15, 68, 523
Fruit 331
Fruit and Fruit Trees Quality and Productiveness Improvement ... 416
Fruit Expert 152
Fruit Fly Checked by Cold Storage ... 435
Fruit Fly Eggs 370
Fruit Fly Grape 195
Fruit Fly Investigations 1, 194, 369, 496
Fruit Fly Parasites 195
Fruit Fly (Tryon's Common) 284
Fruit Industry Educational Work ... 530
Fruit Industry Important New Regulation 129
Fruit Industry Lantern Slide Lectures and Fruit Packing Classes 443
Fuel Plant Resources, Motor 455
Fungus Diseases 4, 196
Fungus Disease of Tomato 498
Furred Friends of Farmer 433

Page.

G.

Garden and Farm Notes 253, 351, 451, 543
General Notes 45, 152, 245, 341, 443, 537
Germinating Capacity and Purity of Principal Seeds Imported in Queensland 183
Germinating Capacity of Agricultural Seeds 180
Ghittoe Tree, Southern 197
Gidyea Poisoning of Stock 191
Gilbert River Horse Disease 175
Grading Apples 387
Grading Butter 511
Grading Cotton 257
Grading Lemons 266
Grading Organisation 258
Grading Pears, Peaches, Plums, and Tomatoes 387
Grapes Fruit Fly 195
Grass Killed by Arsenic 447
Grass, Sudan 46
Grubs Breeding, Scaraboeid 206
Grub Parasites, Cane 473
Guarantee, Cotton 256, 365

H.

Halfordia Drupifera Tree 198
Handling Carelessness: Cause of Pine-apple Trade Damage 440
Harvesting by Electric Light 43
Herd Testing 64
Hide Tanning 447
Horses Export 185
Horses, Gilbert River Disease 175
Horse Mange Treatment 337
Horses, Small Worms Treatment ... 337

I.

Impaction Paralysis of Cattle 366
Inoculation Period 536

J.

Jarvis' Fruit Fly Investigations 1, 369
Jensen's Sunspots and Relation to Climate 377
Jensen Theory and Sunspot Minimum 42

K.

Kola Nut 540

L.

Land for Settlement 539
Lantana Cattle Poisoning 176
Layer and Breeder Picking 444
Lemons, Grading 266
Local Producers' Associations 256
Lucerne 57

M.

Maiden's Blush Tree 513
Main Roads Board 132
Maize 54, 331
Mange Treatment, Horses 339
Mangosteen (Meston) 43, 245
Manures, Fertilisers, and Fertilisers Acts 214

Page.

Marara Tree 409
Marketing Organisation 258
Martin and Boyd's Tobacco Culture ... 4
Mastitis in Cattle 175
Mauritius Bean 540
Melon Seeds as Food for Stock and Poultry 449
Meston Mangosteen 43
Mill Offal 347
Minister's New Year Message to Farmers, Frontispiece, January Number
Mortgages Questions 165
Moth Borer 373
Moth, Cabbage 371
Moth, Codling 497
Moth, Tussock 196
Motor Fuel Plant Resources 455
Mycotic Poisoning 190

N.

National Utility Poultry Breeders' Association Competition, Zillmere ... 111
Native Bears and Opossums Protection 342, 443
Natural Enemies of Sugar Cane Beetles 157
New Year Message to Farmers, Minister's, January Number, Frontispiece
Night Harvesting by Electricity ... 43
Nitrogenous Fertilisers 538
Nodules in Beef Experiments 247
Nut, Kola 540
Nutmeg Pigeon 245
Nut, Thin-shelled Variety, Queensland 539

O.

Offal, Mill 347
Ophthalmia in Poultry 449
Opossums and Native Bears Protection 342, 443
Opossum Open Season 537
Opossum Trapping 456
Orange Citrus Bug 103
Orange Grading 266
Orange Marketing 260
Orange Sucking Bug 33
Orchard Boxes 389
Orchard Notes 47, 160, 251, 352, 452, 541
Organisation of Agricultural Industry in Queensland ... 166, 258, 358, 458
Organisation of Agriculture in Queensland, Interest in America and South Africa 346

P.

Packing Apples 387
Packing Organisation 258
Packing Peaches, Pears, Plums, and Tomatoes 387
Para-dichlorobenzene 18, 86, 206
Paralysis in Dogs due to Scrub Tick Bite 177
Paralysis of Cattle Impaction 366
Parasites of Cane Beetle 207
Parasites of Cane Grub 473
Parasites of Fruit Fly 195
Parasites of Tachinid Fly 16
Passion Vine Eating by Cattle, Wild 326
Pasteurisation Value 257
Pathology of Plants 371
Peach Culture 13
Peach Leaf Poison Bush or Wild Peach 81

Page.

Peaches, Commercial Picking, Grading, and Packing 387
Pear Checking, Prickly 537
Pear, Commercial, Picking, Grading, and Packing 387
Pear Commission, Prickly 256
Pear Poison, Prickly 248
Pests and Diseases of Cotton Regulations, India and British Colonies ... 235
Pests of Cane Combat and Control ... 16
Pests of Cotton in North Queensland 409
Pests of Cotton, Smoking Out ... 312
Phosphates, Super 151
Picking Apples, Peaches, Pears, Plums, and Tomatoes 387
Pig and Dairy Fodder 58
Pig Ankylostoma Duodenale 176
Pig Breeds for Queensland Conditions 308, 412, 518
Pig Fattening 448
Pig Fence, Effective 148
Pig Pool 537
Pigeon, Nutmeg 245
Pineapples, Beerburrum Subsidy ... 154
Pineapple Board Referendum 45
Pineapple Crop Distribution Scheme ... 247
Pineapple Trade, Cause of Damage ... 440
Pink Boll Worm 444
Pink Marara Tree 409
Plants Diseases Regualtions and Acts 246, 516
Plants Pathology 371
Plants, Removal Prohibited, Banana 535
Plants, Resources for Motor Fuel ... 455
Pleuro-pneumonia Contagious 190
Plum, Commercial Picking, Grading, and Handling 387
Plum Tree, Black 78
Pneumonia (Contagious Pleuro-) ... 190
Poison Fly Baits 194
Poisoning, Mycotic 190
Poisoning of Cattle by Lantana ... 176
Poisoning of Stock by Gidyea 191
Poisoning Prickly-pear 248
Poland-China Pig Breed 412
Pool Ballot, Egg 456
Pool Board, Tomato Pool Act ... 45
Pool, Pig 537
Pools Acts and Regulations 245
Pools and Victorian Farmers 341
Potatoes and Potato Returns 57, 331, 449
Poultry 331
Poultry Breeders' National Utility Association 111, 243, 323, 423
Poultry Breeding 109
Poultry Crates 325
Poultry, Eye Worms 158
Poultry Feeding 347
Poultry Food, Pumpkin and Melon Seeds as 449
Poultry Keeping Instruction 45
Poultry Ophthalmia 449
Poultry Roup 158
Poultry Raising and Marketing Methods in California 10
Poultry Selection 109
Poultry Worms of the Eye 158
Prickly-pear Checking 537
Prickly-pear Commission 256
Primary Producers' Pool Acts and Regulations 45
Primary Producers' Association (Local) 256
Pumpkin and Melon Seeds as Food for Stock and Poultry 449
Pure Seeds Acts and Amendments ... 115
Pure Seeds Acts and Stock Food Acts 178
Purity Analysis of Agricultural Seeds 181
Purity of Principal Seeds Imported in Queensland 183

Page.

Q.

Queensland Agriculture in 1922 ... 54
Queensland Dairy Industry in 1922 ... 61
Queensland Nut, Thin-shelled 539
Queensland Producers' Association ... 327
Queensland Trees 78, 304
Quinine Plant Dip Mixtures 348
Quodling's Queensland Agriculture ... 54
Quodling's Silage and Stacks 288

R.

Rainfall Chart Table 32, 35, 100, 250, 285, 386, 536
Ratoon Cotton 153, 357
Ratoon Sugar Crops 372
Redwater Immunisation 173
Referendum, Pineapple Board ... 45
Refrigerated Cream Wagon 504
Reid and Story's Organisation of Agricultural Industry in Queensland 166, 258, 358, 458
Research Work 461-468
Roads Board, Main 132
Ropiness in Bread 348
Rose-leaf Tree 409
Ross's Viticulture 131
Rot of Apple, Bitter 196
Rot of Apple, Brown 197
Rowland's Commercial Picking, Grading, and Packing of Apples, Pears, Peaches, Tomatoes, and Plums ... 387
Roup of the Eye in Poultry 158
Rubber Vine Weed 286
Rural Credit in South Africa 43
Rutellidœ Beetles 333

S.

Scarabæid Grub Breeding 206
School Farms 459
Science Notes 333
Scientists of Australia, Defence ... 42
Scrub Beefwood 304
Scrub Tick Bite Paralysis in Dogs ... 177
Seeds and Stock Foods Acts Review 115, 178
Seeds, Canary 57
Seeds, Cotton 446
Seeds, Germination Capacity and Purity Analysis 180-1
Seeds of Frequent Occurrence (Weed) 182
Seeds of Pumpkin and Melon as Stock and Poultry Food 449
Septic Infection of Feet of Imported Sheep 176
Settlement, Land 539
Sheep 192
Sheep Dentition 320
Sheep's Feet Septic Infection 176
Sheep Stomach Worms 83
Sheep Wire Worm 381
Show Dates 147, 339, 446
Silage and Stacks 288
Silage as Food 304
Silage Stacking 249
Slaughtering Acts 193
Small Worms in Horses 337
Smith and Tryon, Bunchy Top Disease 32
Smoking Out a Cotton Pest 312
Solanum Seaforthianum Weed ... 238
Southern Ghittoe Tree 197
Spraying Experiments 369
Stacking Silage 249
Stacks and Silage 288
Staggers 347
Stallion Examinations 186
Standing Committee, Council of Agriculture 342
Stanthorpe Tomatoes 154
State Farms Report for 1922 59
State Insurance 245
Stock and Poultry Food, Pumpkin and Melon Seeds 449
Stock Diseases 190
Stock Experiment Station, Townsville 173
Stock Food and Pure Seeds Acts Review 178
Stock, Gidyea Poisoning 191
Stock Infested by Tick, Travelling ... 187
Stock Movements 187
Stock of Queensland 185
Stock Statistics 185
Stock Studies 308, 412, 518
Stock Tuberculosis 192
Stomach Worms, Sheep 83
Storage Checking Fruit Fly, Cold ... 435
Story and Reid's Organisation of Agricultural Industry in Queensland 166, 258, 358, 458
Story's Agricultural Education in Queensland and California 144
Stud Stock Pig Breeds Studies 308, 412, 518
Sucking Bugs of Orange 33
Sudan Grass 46
Sugar Assessment 444
Sugar Beet Growing 449
Sugar Beetle Collecting 374
Sugar-cane and White Ants 372
Sugar-cane Beetles' Enemies 157
Sugar-cane Cultivation and Fertilisers 127
Sugar-cane Moth Borer 18
Sugar Crop Prospects 208
Sugar Experiments ... 76, 425, 474
Sugar Field Reports 7, 118, 208, 279, 371, 469
Sugar Industry 164, 200
Sugar Industry Conference 124
Sugar Industry Future and Delegation 268, 499
Sugar Industry Stabilisation Proposals 124
Sugar Ratoon Crops 372
Sunspots and Climate Relation ... 377
Sunspot Minimum and Jensen's Theory 42
Superphosphates Origin 151
Sweet Potatoes 57
Swine Fever 192
Syphoning Acid 448

T.

Tachinid Fly Parasites 16
Tachinid Fly Parasites of Cane Beetle 207
Tamworth Pig Breed 412
Tanning Hides 447
Technical Education to Country ... 456
Tetanus, Cattle 175
Textile Crops, World Production ... 412
Tick Bite Paralysis in Dogs 177
Tick Fever Cattle Immunisation ... 172
Tick Infested Travelling Stock ... 187
Tick Pest Suppression 187
Timber Borer 371
Tobacco Culture 4, 98
Tomato Black Spot 349
Tomato Caterpillar 498
Tomato Fly 196
Tomato Grading 387
Tomato Packing 387

Page.

Tomato Picking 387
Tomato Pool Board 45
Tomatoes, Stanthorpe 154
Trap Lure Experiments 369
Travelling Stock Infested by Ticks ... 187
Trees Beetles (Feeding) 207
Trees of Queensland ... 78, 197, 409, 513
Tryon and Smith's Bunchy Top Investigations 32
Tryon's Citrus Orange Bug 220
Tryon's Common Fruit Fly 220
Tryon's Cotton Worm 220
Tuberculosis of Stock 192
Tussock Moth 196

U.

University and Agriculture 356

V.

Vacuum Desirable 152
Vine-eating by Cattle (Wild Passion) 326
Vine Rubber Weed 286
Viticulture 131

W.

Ward's Peach Culture 13
Warwick Mill and State Wheat Board 443
Weeds for Identification 448
Weeds of Queensland ... 81, 238, 286, 516
Weed Seeds of Frequent Occurrence ... 182
Weevil Arsenic Preventive (Boll) ... 342

Page.

Weevil Destruction by Calcium Arsenate (Boll) 493
Weevil, How California Keeps Free from Boll 444
Weevil, Wood Borer 195
Wells' Cotton Industry 233
Wheat 55
Wheat Board and Warwick Mill ... 443
Wheat Industry Development 330
Wheat Trials, New 436
White and Francis's Queensland Trees 78, 197, 409, 513
White and Francis's Queensland Weeds 81, 238, 286, 516
White Ants 158
White Ants and Sugar Cane 372
Wild Peach Weed 81
Wire Worm in Sheep 381
Wood Boring Weevil 195
Woolly Aphis 498
Workers of Queensland 152
World's Cotton Production and Conservation 494-5
World's Textile Crops Production ... 412
Worms in Chickens 416, 158
Worms in Horses 337
Worms in Sheep 83, 381
Worms of Cotton 220
Worms, Pink Boll 444

Y.

Yorkshire Pig Breed 308

Z.

Zillmere Egg-laying Competition ... 534

INDEX TO ILLUSTRATIONS.

	Page.
Ackama paniculata Tree ...	410, 411
Adult Banana Beetle Borer ...	72, 529
Agricultural Department Exhibit, Stanthorpe Show	244
Agrymus mastersi Pascoe, Larva of ...	89
Alluvial Flats on Bell's Creek, Callide Valley, Inspected by British Cotton Delegation	24
A.N.A. Exhibition, Melbourne, 1923 ...	338
A.N.A. Exhibition, Queensland Section, 1923	307
Apple and Gum Pastures, Marshlands, Wondai	31
Apple Packing, Conical Shaped ...	396
Apple Packing, Determination ...	397
Apples, Packed	387, 393-5
Apple-tree, Black	79-80
Arndt's Laidley Cotton Farm	437
Asilid Larva and Maggot, Cane Grub Enemies	89
Ayrshire Champion	212
Baconers, Berkshire and Yorkshire Grades Light Weight	520-1
Banana Beetle Borer Adult ...	72, 529
Banana Beetle Borer Eggs	525
Banana Beetle Borer Grub ...	72, 529
Banana Beetle Borer Pupa ...	72, 529
Banana Corm, Grub Infested	528
Banana Corm Showing Beetle Borer Pupa in Situ	70
Banana Corm, Showing Grub Tunnels	69-70
Banana Plant Butt, showing *C. sordidus* Infestation	527
Banana Tariff Protection—Fruitful Argument	531
Baroon Pocket, near Montville ...	340
Beefwood, Scrub and Tree ...	305, 415
Beetle Banana Borer Adult ...	72, 529
Beetle Banana Borer Eggs	525
Beetle Banana Borer Grub ...	72, 529
Beetle Banana Borer in Corm ...	70
Beetle Banana Borer Pupa ...	72, 529
Beetle, Parent of *Agrypnus* Larva ...	89
Beetle Rhipiphorid	97
Beetles, Cane	337
Belle of Longlands, Champion Ayrshire Cow	212
Berkshire Boar	309
Berkshire Grade Baconers	520
Berkshire Sow	309
Berkshire Sow and Litter	519
Bin, Orchard	390
Black Apple—Fruit, Seed, and Tree	79-80
Black Plum—Fruit, Seed, and Tree	79-80
Black Soil Road cut up by Wheeled Traffic in Wet Weather	133
Black Soil Road, Darling Downs, in Bad State through Maintenance Neglect	133
Black Sow, British	518
Boar, Berkshire	309
Boar, Mid York	309
Boar, Poland-China	414
Boar, Tamworth	413
Board Members, Stanthorpe Tomato Pool	242
Boll Weevil	493
Boll Worm	231-2
Borer Beetle of Banana, Adult	72, 529
Borer Beetle of Banana, Eggs	525
Borer Beetle of Banana, Grub ...	72, 529
Borer Beetle of Banana, Pupa ...	72, 529
Borer Beetle of Banana, Pupa, in Corm	70
Bountiful and Beautiful Burnett from Binjour Plateau	439
Box, Orchard	389
Breeding Cage for Tachinid Flies ...	17
Bridge in Bad State through Maintenance Neglect	139
Bridge, Russell River	202
British Black Sow	518
Brown's Friesian Heifer, Maud Rooker Korndyke	213
Buderim to Sea Road ...	340, 343, 345
Bunya Mountain Road	26
Burnett Cattle	438
Burnett Cotton Crop	439
Burnett Land from Binjour	439
Burning Stack, Smoking Out Cotton Pest	313
Butt of Banana Plant, showing *C. sordidus* Infestation	527
Butter and Cheese Factory Managers' Conference, 1923	503
C. sordidus Eggs	530
C. sordidus Infestation of Banana Butt	527
Cages for Breeding Tachinid Flies ...	17
Callide Valley Alluvial Flats Inspected by British Cotton Delegation ...	24-28
Campsomeris carinifrons Turner ...	93
Campsomeris ferruginea Fabr. ...	93
Campsomeris radula Fabr., Life History	91
Campsomeris tasm. Sauss	93
Cane Beetles	337
Cane Grubs Predaceous Enemies ...	89
Cane, Mackay Experiment Station Plant	443
Cane Sugar	123
Cattle, Burnett	438
Cattle, Gindie Stud Stock Farm, Frontispiece, January, 1923	

INDEX TO ILLUSTRATIONS—*continued.*

Page.

Chay's Stack, Wetheron Farm 301
Cheese and Butter Factory Managers' Conference, 1923 503
Cheese Drive, Striking Feature and Window Display 249
Cleome Aculeata Weed 517
Conference, Butter and Cheese Factory Managers, 1923 503
Conical-shaped Apple Packing ... 396
Conochie's Jersey: Ginger Fern of Brooklands 212
Construction Method, Shire Roads ... 134
Corm of Banana, Grub Infested 69, 70, 528
Cotton Boll Weevil 493
Cotton, British Delegation Inspecting Alluvial Flats, Callide Valley ... 24
Cotton, British Delegation Members at Gordon Downs, Capella 24
Cotton Country 24
Cotton Crop, Burnett 439
Cotton Delegation at Surveyor's Camp, Callide Valley 25
Cotton Delegation Inspecting Shipping Facilities, Gladstone 29
Cotton, Eleven Weeks Old, Kraatz's Farm 315
Cotton Farm, Laidley, Arndt's ... 437
Cotton Field before Firing and Smoking Out Pest 312
Cotton Field, Biggenden, Todd's 317-8
Cotton Field, Pullen Vale, McMartin's 437
Cotton Ginnery, Rockhampton ... 20
Cotton Land, Fleecy Flake 23
Cotton Picking, Dawson Valley ... 21
Cotton Plantation, Dawson Valley ... 19
Cotton Rows, Stack of Tarred Rubbish to Windward of 312
Cotton, Seven Weeks Old, Kraatz's Farm 315
Cotton, 300th Ginned Bale for Export to Lancashire 316
Crossing, Callide 28
Crushing Metal Plant, Portable ... 141
Cutter for Silage 299
Cryptostegia grandiflora Weed ... 287
Dairy Lands, North Coast Line, Blackall 345
Dawson Valley, Cotton Picking ... 21
Dawson Valley Cotton Plantation ... 19
Dawson Valley, Don River Crossing ... 27
Delegation at Work, Callide Valley ... 26
Egg, Outsize 311
Eggs, Banana Beetle Borer 525
Eggs, *C. sordidus* 530
Excessive Loads and Bad Foundation and Damage to Roads 135
Exhibit, A.N.A. Exhibition, Queensland 307
Exhibit, Stanthorpe Show, Agricultural Department's 244
Exhibition, A.N.A., Melbourne, 1923 338
Experiment Station, Gordonvale, Sugar 77
Extending King Cotton's Realm ... 30
Fall's Herd of Friesians, Tingoora ... 31
Fleecy Flake from Cotton Land ... 23
Flies' Breeding Cage, Tachinid ... 17

Page.

Fodder Stacking, Single-horse Hoist 298
Foundation and Excessive Loads Damage to Road (Bad) 135
Friesian Heifer 213
Friesian Herd, Tingoora 31
Fruit and Seed of Black Apple Tree ... 80
Fruit and Seed of Black Plum Tree ... 80
Fruit Packing for English Markets, South Africa 306
Fruit Packing Lesson 244
Fruit, Stanthorpe Prize-winning Exhibit, Sydney Show 441
Fruitful Argument for Queensland Banana Tariff Protection 531
Fuchsia of Strathdhu, Illawarra Shorthorn Cow 213
Ghittoe Tree 198-199
Gindie Stud Stock Farm Cattle—Frontispiece, January No.
Ginger Fern of Brooklands, Jersey Type 212
Ginned Bales at Whinstanes for Export to Lancashire 316
Ginnery, Rockhampton 20
Gishford's Cotton Farm, Barambah Creek 439
Gordonvale Sugar Experiment Station 77
Grub of Banana Beetle Borer 529
Grub of Cane's Predaceous Enemies ... 89
Grub Pupa of Banana Beetle Borer ... 72
Grub Tunnels Infestation of Banana Corm 69
Guide Rod Stalk-laying by Sledge Cutter 70, 289, 528
Gum and Apple Pastures, Marshlands, Wondai 31
Halfordia drupifera Tree ... 198-9
Heliothis armigera 231-2
Herd of Friesians, Fall's Farm, Tingoora 31
Hoist for Stacking Fodder (Single-horse) 298
Hoist for Stacking Fodder (Whip) 291, 293, 294, 296
Holmes's Belle of Honeylands, Ayrshire Cow 212
Horse Hoist for Fodder Stacking ... 298
Hyperalonia funesta Walker 97
Hyperparasites of Scoliid Wasps ... 97
Illawarra Milking Shorthorn Cow ... 213
Infested Banana Corm, showing Grub Tunnels 69-70
Jersey Type 212
Johnstone Central Sugar Mill ... 475
King Cotton's Unfurrowed Realm... Glimpse of Callide Valley Flats ... 28
Kraatz's Seven and Eleven Weeks' Old Cotton, Tallegalla 315
Larva of *Agrypus*, Skip-jack Parent Beetle 89
Leggatt, a Reid's Creek Pioneer, and Wagon in which he Overlanded from Adelaide Forty Years Ago 438
Lending a Hand, Wowan, Dawson Valley 25
Loads and Bad Foundations Damage to Roads (Excessive) 135

INDEX TO ILLUSTRATIONS—*continued.*

Page.

Locomotive on Russell River Bridge 202
Maiden's Blush Tree 514-5
Maintenance and Resurfacing of Roads 143
Maintenance Neglect on Roads ... 133
Marara Tree 410-11
Marshlands, Gum and Apple Pastures, Wondai 31
Maud Rooke's Korndyke, a Typical Friesian Heifer 213
McMartin's Pullen Vale Cotton Field 437
Metal-crushing Portable Plant ... 141
Metal, Intermediate Course, Flanks Rolled by 5-ton Water Ballasted Roller 141
Metalling all Removed by Heavy Rain on Steep Grade 139
Mid-York Boar and Sow 310
Milking Shorthorn Cow 213
Mill, South Johnstone Central Sugar 475
Mitchell's Illawarra Shorthorn Cow Fuchsia of Strathdhu 213
Montville Orchard 343
North Coast Dairy Lands, Blackall Range 345
Orchard Bin 390
Orchard Box 387
Orchard, Montville 343
Organisation Diagram, Agriculture ... 169
Pack of African Fruit for English Markets 306
Packed Apples 387, 393, 395
Packing Conical Apples 396
Packing Determination, Apple ... 397
Packing Fruit Lesson 244
Packing Peaches 402, 405
Packing Pears 399, 402
Packing Plums 408
Packing Tomatoes 406-7
Parent Beetle of *Agrypnus* Larva ... 89
Peach-leaf Poison Bush 82
Peach Packing 402, 405
Pear Packing 399, 402
Pests, Smoke Screen, Cotton 314
Pest, Smoking Out, Cotton Field ... 312
Pest, Smoking Out, Stack Burning ... 313
Picking Cotton, Dawson Valley ... 21
Pioneer Clearing, Porter's Gap, Bunya 30
Pioneer of Reid's Creek and Wagon in which he Overlanded from Adelaide Forty Years Ago 438
Plant Cane, Mackay Sugar Experiment Station 443
Planting Potatoes 219
Plum Packing 408
Plum Tree Seed and Fruit, Black 79-80
Poison Bush, Wild Peach-leaf ... 82
Poland-China Boar and Sow 414
Pool, Tomato Board, Stanthorpe ... 242
Portable Metal-crushing Plant ... 141
Potato Planter 219
Predaceous Enemies of Cane Grubs ... 89
Prize-winning Exhibit, Sydney Show 441
Promachus doddi Bezzi, Cane Grub Enemy 89
Pullen Vale Cotton Field 437
Pullen Vale, Falling 440

Page.

Pupa Grub of Banana Beetle Borer 72, 529
Pupa of Banana Beetle Borer in Corm 70
Queensland Cotton Country 24
Rain-gutted Roads 137
Resurfacing and Maintenance of Roads 143
Rhipiphorid Beetle 97
Road, Buderim to Sea ... 340, 343, 345
Road Construction Methods as Practised in Some Shires 134
Road Damage by Bad Foundations and Excessive Loads 135
Road Damaged by Wheeled Traffic Owing to Insufficient Thickness of Material 137
Road Maintenance and Resurfacing ... 143
Road Metalling all Removed by Heavy Rains on Steep Grade 139
Road on a Grade 1 in 3 Gutted by Rain 137
Road on Darling Downs Blacksoil Cut Up by Wheel Traffic in Wet Weather 133
Road on Darling Downs Blacksoil in Bad State through Neglect of Maintenance 133
Road under Construction and Old Road Below 143
Rockhampton Cotton Ginnery 20
Rose Leaf Marara Tree 410, 411
Rubber Vine Weed 287
Rubbish Tarred Stack, Windward of Cotton Rows 312
Russell River Bridge Locomotive ... 202
Rutellidæ Cane Beetles 337
Sandy Patch en route from Bell's Creek to Callide 29
Scolia formosa Guer 93, 95
Scoliid Wasps Hyperparasites 97
Scoliids of Cairns 93, 95
Scrub and Tree, Beefwood ... 305, 415
Scrub Scene near Porter's Gap, Bunya Mountains—Kingaroy to Bell Road 26
Seed and Fruit of Black Apple and Plum Tree 80
Seed and Tree, *Sideroxylon australis* 79, 80
Shipping Facilities, Cotton Delegation Inspection, Gladstone 29
Shire Road Construction Method ... 134
Shorthorn Milking Cow 213
Sideroxylon australis, Tree and Seed 79, 80
Silage Sledge Cutter 289, 299
Silage Stack in Course of Construction 291, 296
Skipjack Parent Beetle of *Agrypnus* Larva 89
Sledge Cutter at Work, Immature Crop Showing how Stalks are Laid Down by Means of Guide Rod 289
Sledge Cutter for Silage 299
Sloanea australis Tree 514, 515
Smoke Screen Against Cotton Pests ... 314
Smoke Out Cotton Pest 312
Solanum Seaforthianum Weed ... 239
South Johnstone Sugar Central Mill ... 475
Southern Ghittoe Tree 198, 199
Sow and Litter, Berkshire 519
Sow, Berkshire 309

LIST OF ILLUSTRATIONS—*continued.*

	Page.
Sow, British Black	518
Sow, Mid York	310
Sow, Poland-China	414
Sow, Tamworth	413
Stack Burning in Smoking Out Cotton Pests	313
Stack Construction, Darling Downs 291,	296, 303
Stack of Tarred Rubbish to Windward of Cotton Rows	312
Stack on T. Chay's Farm, Wetheron	301
Stalks Laying by Means of Guide Rod, Sledge Cutter	289
Stanthorpe Prize-winning Exhibit, Sydney Show	441
Stanthorpe Show Agricultural Department Exhibit	244
Stanthrope Tomato Pool Board Members	242
Stenocarpus salignus Tree	305
Stock Cattle, Gindie Stock Farm, Frontispiece, January, 1923	
Stud Stock Farm Cattle, Gindie, Frontispiece, January, 1923	
Stud Stock Studies	212, 213
Sugar Cane	123
Sugar Central Mill, South Johnstone	475
Sugar Conference Delegates	125
Sugar Experiment Station, Gordon Vale	77
Tachinid Flies Breeding Cage	17
Tamworth Boar and Sow	413
Tariff Banana Protection, Fruitful Argument	531
Tarred Rubbish Stack to Windward of Cotton Rows	312
Thynnids of Cairns	95
Thynnus pulchralis Smith	95
Tingoora Herd of Friesians, Falt's Farm	31
Tiphia intrudens var. *brevior* Turner	95
Todd's Biggenden Cotton Field	317, 318
Tomato Packing	406, 407
Tomato Pool Board, Stanthorpe	242
Trackless Lands on Upper Callide	27
Traffic Damage to Roads	133, 137
Trees, Beefwood	415
Tree, Black Apple	80
Tree, Black Plum	80
Tree, Maiden's Blush	514, 515
Tree, Marara Rose Leaf	410, 411
Tree, *Sideroxylon australis*	79, 80
Tree, *Sloanea australis*	514, 515
Tree, Southern Ghittoe	198, 199
Tree, *Stenocarpus salignus*	305
Trema aspera Weed	81
Vine Rubber Weed	287
Virgin Callide Country	28
Waggon in which Mr. Leggatt, a Reid's Creek Pioneer Overlanded from Adelaide Forty Years Ago	438
Wasps, Hyperparasites, Scoliid	97
Weeds, *Cleome Acuteata*	517
Weeds, Rubber Vine	287
Weeds, *Solanum Seaforthianum*	239
Weeds, *Trema aspera*	82
Weeds, Wild Peach	82
Weevil, Boll	493
Well Alight, Cotton Pest Smoking Out	313
Wheel Traffic Damage to Road Owing to Insufficient Thickness of Material	137
Wheeled Traffic Cutting Up of Black Soil, Darling Downs Roads in Wet Weather	133
Whip Hoist, Silage Stack 291, 293, 294,	296
Wild Peach Weed	82
Worm, Boll	231, 232
Yorkshire Grade Baconers	521
York Sow and Boar, Mid-	310
Zaspilothynnus vernalis Turner	95

Greetings.

Hearty Good Wishes

for a

Bright and Prosperous

1923.

CATTLE ON GINDIE STUD STOCK FARM

Department of Agriculture and Stock,
Brisbane.

We have pleasure in publishing the subjoined message to the Farmers of Queensland from the Minister for Agriculture and Stock, Hon. W. N. Gillies, on the advent of the New Year.

THE MINISTER'S MESSAGE

To the Farmers of Queensland.

Agriculture is the Mother of all Industry: leading all the Arts and Sciences, it is in the van of human civilisation and human progress. Present conditions call for a fresh, broad survey of rural life and its problems, a greater appreciation of the difficulties that beset Queensland's basic industry, and a more definite sense of direction in respect to its fullest development

The fostering of the Agricultural Industry, on which all our present prosperity is based and our future must be built, demands the attention of the best minds of the Commonwealth, and to this end the farmers themselves must contribute their quota of brains and energy

On the threshold of a new year it is good, perhaps, to pause awhile and survey our affairs in retrospect and prospect The past year is bright with legislative achievement Broad, liberal laws have given to the producers themselves the control of their own industry In the Primary Producers' Organisation Act and subsidiary measures the farmers have now the machinery for their own industrial emancipation

In the course of the year just closed the Provisional Council of Agriculture was constituted. Its chief purpose was to carry into accomplishment the great project of its progenitors of organising the farmers of Queensland into a completely unified, national, articulate, and forceful body In its preliminary work of organisation the Provisional Council has performed splendid service. In addition to setting up the machinery of central organisation, it has established 705 Local Producers' Associations, with an aggregate membership approaching 20,000 farmers. In the course of the next few months the Provisional Council will automatically cease to function. In its place will be established statutorily the standing Council of Agriculture elected by District Councils yet to be constituted, which in turn will be elected by members of Local Producers' Associations already functioning or about to be inaugurated The nominations for the District Councils are about to close. The franchise has been restricted to members of local associations, who must be bona-fide primary producers, and ballot-papers must be returned by February 3rd. Following the election of District Councillors will be the election from those bodies of representatives on the Central Council of Agriculture.

I cannot over emphasise the importance of members of local associations exercising the greatest care in selecting the best available men to represent them on District Councils and on the Grand Council.

The whole success of this great forward movement depends on the wise selection of councillors. It is hoped that the primary producers chosen will be men of breadth of mind, honesty, sincerity, ability, and abiding purpose, with, above all, absolute faith in the scheme upon which this great advance in rural organisation is based.

Looking forward, the coming year is big with promise that must surely ripen into fulfilment The field of rural organisation has been cleared and widened, the first furrow has been opened, the machinery is on the ground, and in their hands the farmers of Queensland now hold their own industrial destiny

W. N. Gillies